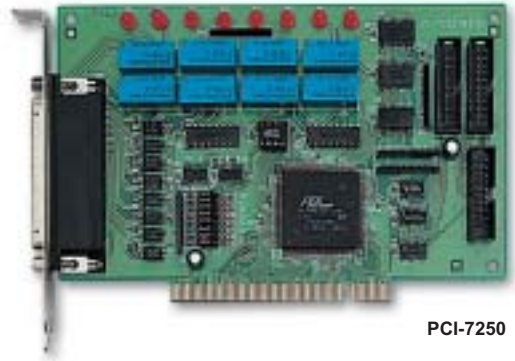


PCI-7250/7251

8-CH Relay Outputs & 8-CH Isolated DI Cards

Features

- Supports a 32-bit 5 V PCI bus
 - 4-CH SPDT & 4-CH SPST relays (PCI-7250)
 - 8-CH SPDT & 8-CH SPST relays (PCI-7250 + 1 x PCI-7251)
 - 12-CH SPDT & 12-CH SPST relays (PCI-7250 + 2 x PCI-7251)
 - 16-CH SPDT & 16-CH SPST relays (PCI-7250 + 3 x PCI-7251)
 - Nonlatching relays
 - On-board LED indicators for relay status
 - On-board relay driving circuits
 - Relay output status read back
 - 8-CH isolated digital inputs (PCI-7250)
 - 16-CH isolated digital inputs (PCI-7250 + 1 x PCI-7251)
 - 24-CH isolated digital inputs (PCI-7250 + 2 x PCI-7251)
 - 32-CH isolated digital inputs (PCI-7250 + 3 x PCI-7251)
 - On-board low-pass filtering for digital inputs
 - Compact, half-size PCB
- **Operating Systems**
 - Windows 2000/NT/XP/9x
 - DOS
 - Red Hat Linux
 - Windows CE (call for availability)
 - **Recommended Software**
 - VB/VC++/BCB/Delphi
 - DAQBench
 - **Driver Support**
 - PCIS-DASK for Windows 2000/NT/XP/9x
 - PCIS-DASK/X for Red Hat Linux
 - PCIS-OCX ActiveX controls
 - PCIS-LVIEW/PnP for LabVIEW **NEW!**



PCI-7250



PCI-7251

Introduction

ADLINK PCI-7250 and PCI-7251 provide 8-CH relay outputs and 8-CH isolated digital inputs. Four of the relays are SPDT (Form C) and four are SPST (Form A), which are suitable for device connection with ON/OFF control. The status of each relay output is represented by an on-board LED. When the relay is in SET condition, its corresponding LED will turn ON, and on the contrary, it is OFF. All of the digital input channels are non-polarity and optically isolated. You can set for each digital input by using RC filter or not. The devices are suitable for collecting digital inputs in noisy environments.

The PCI-7251 is an 8-CH relay outputs and 8-CH isolated DI extension card to be used with PCI-7250. All the I/O functions of PCI-7251 are the same as those of the PCI-7250. The PCI-7251 has to be connected with PCI-7250 and the bus interface is controlled by the PCI-7250. Up to 3 PCI-7251 cards can be connected to one PCI-7250, therefore, extending the PCI-7250's DIO from 8 DIO to at most 32 DIO.

Specifications

Relay Output

- Number of channels: 8
- Relay types
 - Channel 0-3: SPDT (Form C) (PCI-7250 and PCI-7251)
 - Channel 4-7: SPST (Form A) (PCI-7250 and PCI-7251)
- Contact rating
 - AC: 120 V @ 0.5 A
 - DC: 24 V @ 1 A
- Breakdown voltage: 1000 V_{RMS}
- Contact resistance: 100 mΩ
- Relay ON/OFF time
 - Operate time: 8 ms
 - Release time: 8 ms
- LED indicators: on-board LEDs for relay status
- Expected life
 - >5x10⁵ operations @ 1 A, 24 V_{DC}
 - >2x10⁵ operations @ 0.5 A, 120 V_{AC}
- Data transfers: programmed I/O

Isolated Digital Input

- Number of channels: 8
- Maximum input range: 24 V, non-polarity
- Digital logic levels
 - 0-24 V, non-polarity
 - Input high voltage: 5-24 V
 - Input low voltage: 0-1.5 V
- Input resistance: 2.2 kΩ @ 0.33 W
- Isolation voltage: 5000 V_{RMS}
- Data transfers: programmed I/O

General Specifications

- I/O connector: 37-pin D-sub female
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 80 °C

- Relative humidity: 5 to 95%, noncondensing
- Power requirements

Device	+5 V
PCI-7250	140 mA typical
PCI-7251	125 mA typical

- Dimensions (not including connectors)
 - 162 mm x 107 mm (PCI-7250)
 - 141 mm x 102 mm (PCI-7251)

Termination Boards

- **DIN-37D**
Termination Board with a 37-pin D-sub Connector and DIN-Rail Mounting (Including One 1-meter ACL-10137 Cable)
- **ACLD-9137**
General-Purpose Termination Board with a 37-pin D-sub Male Connector
- **ACLD-9138**
General-Purpose Termination Board with a 37-pin D-sub Connector (Including One 1-meter ACL-10237 Cable)

Pin Assignment

NO0	1	20	NO3
COM0	2	21	COM3
NC0	3	22	NC3
NO1	4	23	NO4
COM1	5	24	COM4
NC1	6	25	NC5
NO2	7	26	COM5
COM2	8	27	NO6
NC2	9	28	COM6
NO7	10	29	N/C
COM7	11	30	DI0_H
DI0_L	12	31	DI1_H
DI1_L	13	32	DI2_H
DI2_L	14	33	DI3_H
DI3_L	15	34	DI4_H
DI4_L	16	35	DI5_H
DI5_L	17	36	DI6_H
DI6_L	18	37	DI7_H
DI7_L	19		

Ordering Information

- **PCI-7250**
8-CH Relay Outputs & 8-CH Isolated DI Card
- **PCI-7250L**
8-CH Relay Outputs & 8-CH Isolated DI Card w/o manual & CD
- **PCI-7251**
8-CH Relay Outputs & 8-CH Isolated DI Extension Card for PCI-7250

- 1 Software Solutions
- 2 PXI/CompactPCI Platforms
- 3 PXI-Based Instruments
- 4 PXI/CompactPCI Modules
- 5 PCI DAQ Cards
- 6 **PCI DIO Cards**
- 7 PCI/104-Plus Products
- 8 ISA DAS/DIO Cards
- 9 Wiring Termination Boards
- 10 Motion Control Cards
- 11 Machine Vision Products
- 12 Remote I/O Modules